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ANNUAL REPORT
OF THE COUNCIL
OF THE
YORKSHIRE
PHILOSOPHICAL SOCIETY
FOR THE YEAR
1934

PRESENTED TO THE ANNUAL MEETING,
FEBRUARY 11th, 1935.

PRINTED BY ORDER OF THE COUNCIL.

1935.

Issued April 3rd, 1935.



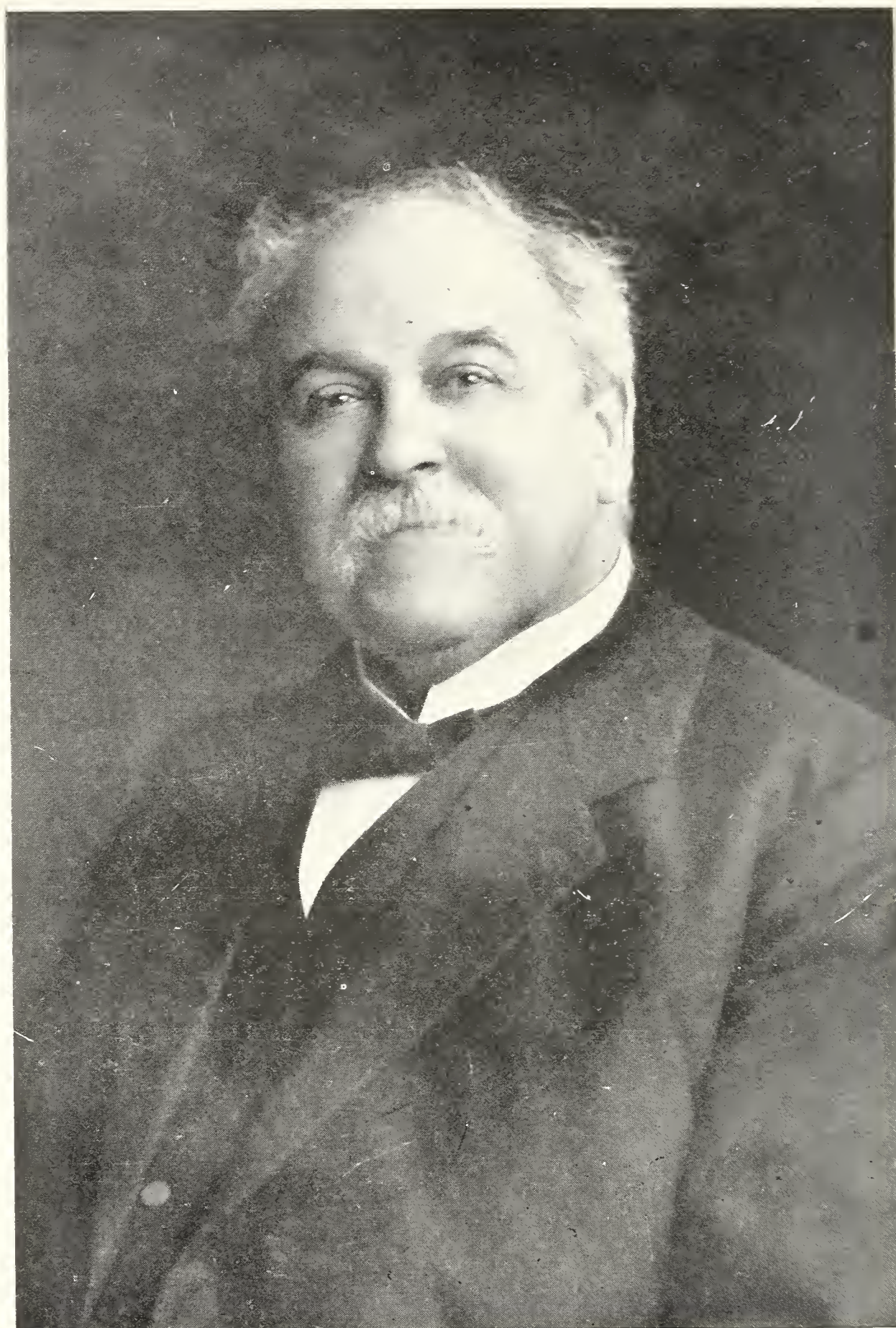
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1859—1934.

ANNUAL REPORT
OF THE COUNCIL
OF THE
YORKSHIRE
PHILOSOPHICAL SOCIETY

FOR THE YEAR

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FORM
OF A
BEQUEST TO THE SOCIETY.

Every person desirous of bequeathing to the Society any sum of Money, Specimens, Books, Instruments, or other Property, is requested to make use of the following form:—

*I give and bequeath to the Trustees, for the time being, of the Society established at York, called “**The Yorkshire Philosophical Society,**” for the use of the said Society, the sum of _____ to be paid out of such part of my personal estate as I may legally charge therewith. [Or here enumerate the effects or property intended to be bequeathed.] And I direct that the receipt of the Treasurer of the said Society, for the time being, shall be an effectual discharge to my Executors for the said legacy.*

The Yorkshire Philosophical Society.

(Founded 1822.)

Patrons :

HIS MAJESTY THE KING. HER MAJESTY THE QUEEN.

Trustees :

THE RT. HON. THE EARL OF FEVERSHAM.

GEORGE A. AUDEN, M.D., M.A., Ph.D., F.R.C.P.

THE RT. HON. LORD DERAMORE, LL.D., D.L.

E. R. DODSWORTH.

ROGER LUMLEY, B.A., M.P.

ALD. FRANK W. TERRY.

GEOFFREY THOMPSON, M.A.

J. TRIFFITT.

President :

THE RT. HON. THE EARL OF FEVERSHAM.

Vice-Presidents :

H. M. PLATNAUER, B.Sc.

REV. A. RAINE, M.A.

ALD. W. H. BIRCH, J.P.

COL. W. A. WHITE, J.P.

S. WALKER, F.R.E.S.

SYDNEY H. SMITH, J.P., F.Z.S.

ARTHUR HURST, A.K.C.

J. TRIFFITT.

CHAS. E. ELMHIRST, J.P.

ALD. FRANK W. TERRY.

W. HARVEY BROOK.

Council :

Elected 1933

Elected 1934

R. H. CHAPMAN.

J. L. BROCKBANK, M.A.

M. DU BOIS FERGUSON, M.D.,

JOHN A. COOPER.

D.P.H.

SIDNEY MELMORE, B.Sc., F.G.S.

GEOFFREY THOMPSON, M.A.

A. W. PING, M.A.

KENNETH WARD, F.R.I.B.A.

Elected 1935

CHARLES ALLEN.

E. BAKER.

J. H. COLLINSON, M.A.

G. W. DANIEL.

Hon. Treasurer :

Hon. Secretary :

S. WALKER, F.R.E.S.

Committees :

General Purposes and Finance Committee :

J. L. BROCKBANK.	REV. A. RAINE.
W. HARVEY BROOK.	ALD. FRANK W. TERRY.
JOHN A. COOPER.	GEOFFREY THOMPSON.
ARTHUR HURST.	J. TRIFFITT.
SIDNEY MELMORE.	S. WALKER.

Garden Committee :

C. ALLEN.	ARTHUR HURST.
E. BAKER.	SIDNEY MELMORE.
R. H. CHAPMAN.	A. W. PING.
J. H. COLLINSON.	COL. W. A. WHITE.
G. W. DANIEL.	S. WALKER, <i>Secretary</i> .

Museum Committee :

W. HARVEY BROOK.	SYDNEY H. SMITH.
ARTHUR HURST.	H. SOWDEN.
REV. A. RAINE.	GEOFFREY THOMPSON.
J. SCOTT.	S. WALKER.

DR COLLINGE, *Secretary*.

Abbey Restoration Committee :

ALD. W. H. BIRCH.	SYDNEY H. SMITH.
W. HARVEY BROOK.	ALD. FRANK W. TERRY.
JOHN A. COOPER.	J. TRIFFITT.
REV. A. RAINE.	S. WALKER.

DR. COLLINGE, *Secretary*.

Building Committee :

ALD. W. H. BIRCH.	KENNETH WARD.
J. TRIFFITT.	S. WALKER.

DR. COLLINGE, *Secretary*.

The President, Hon. Secretary, Hon. Treasurer and Keeper
are *ex-officio* members of all Committees.

York and District Field Naturalists' Section.

President :

CHARLES ALLEN.

Vice-Presidents :

V. G. F. ZIMMERMANN.

F. VEAR.

J. S. GAYNER.

E. W. TAYLOR.

Hon. Treasurer : G. MACHIN,

42, Vyner Street, York.

Hon. Secretaries :

A. W. PING, M.A.,

St. Peter's School,

Clifton, York.

K. G. CHILMAN,

St. Peter's School,

Clifton, York.

REPORT OF THE COUNCIL

OF THE

YORKSHIRE PHILOSOPHICAL SOCIETY.

11th FEBRUARY, 1935.

YOUR Council are very pleased to report that the Rt. Hon. the Earl of Feversham has accepted the Presidency of the Society. All members will join with them in wishing him a long and successful term of office.

It is with feelings of deep regret that we have to report the resignation of Mr. Chas. E. Elmhirst as Honorary Secretary and also as a Trustee.

At a special meeting of the Council held on September 10th the following resolution was passed unanimously :

“The Council of the Yorkshire Philosophical Society have received with deep regret the resignation of Mr. Chas. E. Elmhirst as Hon. Secretary of the Society, which office he has held for 37 years. They wish to place on record their gratitude to him for the signal and highly important services he has rendered, and desire to testify their admiration for the long and devoted interest he has taken in every branch of the Society’s activities to which much of its prosperity is due.

They further much regret Mr. Elmhirst’s resignation as one of the Trustees of the Society, in which office he has rendered able services since 1901.”

Your Council are pleased to report a successful year’s working.

An outstanding feature has been the visit of the Royal Archaeological Institute under the Presidency of Sir Charles W. C. Oman, K.B.E., M.A., LL.D., F.S.A.

Their Summer Meeting was held in York, from July 7th to 17th, with the Museum as their headquarters, and Dr. Collinge acted as Hon. Local Secretary. A Garden Party under the auspices of the Yorkshire Philosophical Society and the Yorkshire Architectural and York Archaeological Society was held on July 13th.

TRUSTEES. At a special meeting of the Council held on September 10th, the following additional Trustees were nominated: The Rt. Hon. the Earl of Feversham, E. R. Dodsworth, Esq., Roger Lumley, Esq., M.P., Alderman Frank W. Terry, Geoffrey Thompson, Esq., M.A., J. Triffitt, Esq., and these were approved of at a General Meeting of the Society held on October 18th.

FINANCES. The year opened with a deficit balance of £33 4s. 2d. and closed with a credit balance of £89 10s. 5d, and this notwithstanding an expenditure of £210 on the new Greenhouse. The overdraft on the Abbey Restoration Fund has been reduced by £35 3s. 2d.; the Million Shilling Fund has increased by £6 13s. 8d., while the Reed Bequest shows a credit balance of £42 3s. 0d.

The Council are greatly indebted to the Honorary Auditor, Mr. Arthur D. Gladwin, for generally revising the setting out of the Accounts so as to present them in a more up-to-date form.

During the year the whole of the Society's property has been inspected as regards its electric installation, gas supply and fittings, and fire preventive apparatus. Some minor repairs have been carried out, and the whole is now in perfect condition.

The following is a full list of Lectures delivered in the Tempest Anderson Hall during the past year.

Thursday, January 4th.—“A Visit to the Norfolk Broads.” By Chas. E. Elmhirst.

Thursday, January 18th.—“A Poor Man Travels.” By John Gibbons.

Thursday, February 1st.—“British Columbia.” By Carl Marsh, F.R.G.S.

Thursday, February 15th.—“Flying alone round the World.” By The Honourable Mrs. Victor Bruce.

Thursday, October 18th.—“Mysterious Nepal, the most Forbidden Land.” By Mrs. Constance Handley, F.R.G.S.

Thursday, November 1st.—“Jamaica from a Naturalist's point of view.” By James Backhouse, F.L.S.

Thursday, November 15th.—“Fads, Follies and Fashions of the 19th Century.” By Mrs. Norah Richardson, B.A., F.R.H.S.

Thursday, November 29th.—“Camera Hunting in the Canadian Wilds.” By Major A. Radclyffe Dugmore, F.R.G.S.

Thursday, December 13th.—“Adventures in the Arctic Circle.” By Miss Mary E. Walker.

Your Council regret to have to record the decease of Mr. Percy J. Spalding, the late Town Clerk of York, and Mr. H. J. Wilkinson who had been a member of the Society since 1891 and a Vice-President from 1916. Mr. Wilkinson was appointed Honorary Curator of Botany in 1892, and his “Catalogue of the British Plants in the Herbarium of the Yorkshire Philosophical Society” was issued between 1895-1917. The immense amount of time and labour he expended

upon the Herbarium frequently called forth the Council's thanks. He left it as one of the finest and most valuable in the British Isles, and it remains a worthy monument to his memory. A further loss was sustained by the death of an Honorary Member, Dr. F. A. Bather, F.R.S., formerly Keeper of the Department of Geology in the British Museum (Nat. Hist.).

By a unanimous vote of the Council Sir George Francis Hill, K.C.B., M.A., D.C.L., F.S.A., Director and Principal Librarian of the British Museum, London, has been elected an Honorary Member of the Society.

FIELD NATURALISTS' SECTION. The Section has continued to hold very successful evening meetings during the winter months. Summer Excursions were arranged to various localities in our area, and we enjoyed hospitality after the rambles by the kindness of several members. The attendance at some of the Excursions, however, was not as good as usual.

At the Annual Meeting in April, the Section unanimously elected Mr. H. J. Wilkinson as its first Honorary Life President as some recognition of the immense amount of work and interest he had for many years given to the Section and to Natural History. With the deepest regret we have to record Mr. Wilkinson's death on December 6th.

The special work of several individual members may be mentioned; viz., the work of Mr. S. H. Smith who is endeavouring to encourage the development of Salmon in the upper reaches of the Rivers Ouse and Ure; the special investigation of the river Ouse, Ure, and the Ripon Canal carried out by Mr. Charles Allen; and an extremely interesting collection of fresh Wild Plants sent by Miss P. Hughes to Hastings for an Exhibition.

At the close of the year membership stands at 120 subscribing members, 9 Honorary Members, and 3 Corresponding Members, a total of 132. This is an increase of 3 on last year.

NEW MEMBERS, ELECTED IN 1934.

Ball-Dodd, Ed., L.R.C.P., L.R.C.S.I., 35 Bootham.
 Betts, Wm., 89 Lawrence Street.
 Burgin, Mrs. M. L., 2 Queen Anne's Road.
 Carter, Gerald, 189 Carr Lane, Boroughbridge Road.
 Challenger, H. L., 15 Grange Street.
 Chudleigh, Cyril, 4 Malton Way, Rawcliffe Lane.
 Creer, H. L., "Daresbury," The Mount.
 Cuthbert, T. E., "Meadow Side," Stockton Lane.
 Gray, Alfred, "Cranford," Clifton.
 Gridale, John, 22/23 Coney Street.
 Harewood, The Rt. Hon. the Earl of, K.G., D.S.O., Harewood House,
 Leeds.
 Harrower, A., F.F.A., 12 St. George's Place.
 Hornsby, Thos., Divisional General Manager (N.E. Area), L. & N.E. Ry.,
 York.
 Jenkinson, G. J., 7 Park Grove.
 King, Lt. Col. J. C. R., 7 South View.
 Lloyd, Mrs. M. J., Stockton Hall, York.
 Mattison, Mrs. E., 14 Frederick Street, Marygate.
 Richardson, The Rev. G. H., Ph.D., Sc.D., The Rectory, Oswaldkirk,
 Yorkshire.
 Sadd, Mrs. A. S., 4 St. John Street.
 Shouksmith, T. H., "Spring Bank," Dringhouses.
 Suggitt, Wm., A. "Bark Knotts," Acomb.
 Swale, T. L., 28 North Parade.
 Tindall, C. B., 6 Chapter House Street.
 Ward, Kenneth, F.R.I.B.A., Haxby.
 Wardrop, General Sir Alexander E., K.C.B., C.M.G., Government
 House, York.
 Ware, Lt. Col. Innes Noel, "Lowfields," Galtres Grove.
 Wilson, Mrs. A., 26 High Petergate.
 Wood, Alwyn, 12 North Parade.
 Wright, Wm., "The Grange," Heworth Green.

DEATHS.

HONORARY MEMBER.

Bather, F. A., M.A., D.Sc., F.R.S., F.G.S., late Keeper of the Department of Geology, British Museum (Nat. Hist.), Cromwell Road, London.

MEMBERS.

Badger, H. W., 5 Clifton Green.
 Burgin, M. F., 54 Coney Street.
 Lloyd, G. W., Stockton Hall, York.
 Metcalfe, A. W., M.D., 2 St. Leonard's.
 Morrell, Coun. H. R., 86 Bishopthorpe Road.
 Ottley, Lt. Col. G. F., 29 St. Mary's.
 Richardson, W., 40 Bootham Crescent.
 Scruton, S., "The Rise," Heslington Road.
 Spalding, P. J., B.A., LL.M., 4 South Mount Terrace.
 Swale, Mrs., 12 Queen Anne's Road.
 Wells, F. J., "Ingsleigh," St. Clement's Grove.
 Wilkinson, H. J., 12 Minster Yard.
 Wilson, W. B., 26 High Petergate.
 Wisker, R. H., 54 St. Olave's Road.

ASSOCIATES.

Shawe, Fleetwood F., The Yorkshire Club.
Tomlinson, G. H., 27 Grosvenor Terrace.

RESIGNATIONS.

Members	29
Lady Subscribers ..	3
Associates	1
	<hr/>
	33
	<hr/>

DEATH AND RESIGNATION.

Members	43
Lady Subscribers ..	3
Associates	3
	<hr/>
	49
	<hr/>

NEW MEMBERS.

29

TOTAL MEMBERSHIP ON 31st DECEMBER, 1934.

Honorary Members	30
Members	335
Lady Subscribers	39
Associates	6
	<hr/>
	410
	<hr/>

LIST OF HONORARY MEMBERS.

1. 1926. Benson, George, A.R.I.B.A., Thirsk Road, Easingwold.
2. 1897. Berget, Baron A., Sorbonne, Paris.
3. 1838. Bobretzki, Dr., The University, Kiev.
4. 1906. Bower, F. O., M.A., Sc.D., LL.D., F.R.S., The Crescent, Ripon.
5. 1898. Clark, J. E., B.A., B.Sc., Burleigh Redroofs, Portway, Street, Somerset.
6. 1923. Clarke, Wm. Eagle, I.S.O., LL.D., F.R.S.E., The Royal Scottish Museum, Edinburgh.
7. 1924. Collingwood, R. G., M.A., F.S.A., Haverfield Library, Ashmolean Museum, Oxford.
8. 1906. Cornish, Vaughan, D.Sc., Inglewood, Camberley, Surrey.
9. 1898. Crichton-Browne, Sir James, M.D., LL.D., D.Sc., F.R.S., 45 Hans Place, London, S.W. 1.
10. 1926. Fox, Sir Cyril, Ph.D., F.S.A., Director of the National Museum of Wales, Cardiff.
11. 1920. Grabham, Oxley, M.A., Heron Cottage, Thornton Dale, Yorks.
12. 1923. Harmer, Sir Sidney F., K.B.E., Sc.D., F.R.S., The Old Manor House, Melbourn, near Royston, Herts.
13. 1934. Hill, Sir George Francis, K.C.B., M.A., D.C.L., LL.D., Director and Principal Librarian, the British Museum, London.
14. 1924. Kendall, Prof. Percy F., D.Sc., F.R.S., F.G.S., Briarwood, Frinton-on-Sea, Essex.
15. 1926. Keith, Sir Arthur, M.D., LL.D., F.R.C.S., F.R.S., Conservator of Museum and Hunterian Professor, Royal College of Surgeons of England, London, W.C.
16. — Lightfoot, Thomas, Masham, Yorks.
17. 1929. MacLagan, Sir Eric, C.B.E., M.A., F.S.A., Director and Secretary of the Victoria and Albert Museum, London, S.W. 1.
18. 1925. Marriott, Sir John A. R., M.A., 17 Belgrave Square, London.
19. 1906. Müller, Sophus, Prindsens Palais, Copenhagen.
20. 1934. Parker, Col. John, C.B., D.L., F.S.A., Browsholme Hall, Nr. Clitheroe.
21. 1926. Peers, Sir C. R., C.B.E., M.A., F.B.A., F.S.A., Chief Inspector of Ancient Monuments, H.M. Office of Works, London.
22. 1927. Regan, C. Tate, M.A., D.Sc., F.R.S., F.L.S., Director of the British Museum (Nat. Hist.), London, S.W.
23. — Sadler, Sir Michael Ernest, K.C.S.I., C.B., D.Litt., LL.D., Master of University College, Oxford.
24. 1906. Shetelig, Dr. Haakon, Bergens Museum, Bergen, Norway
25. 1924. Smith, Arthur H., C.B., M.A., F.S.A., F.B.A., 2 Balfour Road, Weybridge, Surrey.
26. 1929. Thompson, Professor A. Hamilton, M.A., D.Litt., F.S.A., The University, Leeds.
27. 1930. Wheeler, R. Mortimer, M.C., D.Litt., M.A., F.S.A., London Museum, Lancaster House, London, S.W.
28. 1926. Woods, Henry, M.A., F.R.S., Sedgwick Museum, Cambridge.
29. 1923. Woodward, Sir A. Smith, LL.D., F.R.S., F.G.S., Hill Place, Hayward's Heath, Sussex.
30. 1922. Yeld, George, M.A., Orleton, Gerrard's Cross, Bucks.

PAST PRESIDENTS
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY.

- 1822-1830. The Rev. William Venables Vernon, F.R.S., F.G.S.
(Resigned at Annual Meeting, February, 1831.)
- 1831-1857. The Viscount Milton, F.R.S., F.S.A. (afterwards
became the Earl Fitzwilliam). (See Ann. Rpt. for
1857, p. 15.) (Died 1857.)
- 1858-1864. The Earl of Carlisle, K.G., F.R.S. (Died 1864.)
- 1865-1890. His Grace the Lord Archbishop of York. (William
Thomson, F.R.S., F.G.S.) (See Ann. Rpt. for
1890, p. 14.) (Died 1890.)
- 1892-1906. Sir Charles Strickland, Bart., F.G.S. (Resigned
early in 1906.)
- 1906-1913. Tempest Anderson, M.D., D.Sc. (Died 26th August,
1913.)
- 1914-1933. William Herbert St. Quintin, D.L., J.P. (Died
January 21st, 1933.)

<i>Last Year</i>	EXPENDITURE.						£	s.	d.	£	s.	d.
	Rent, Rates and Taxes :											
	York Corporation, Rent	...	...	...	...	...	20	0	0			
	Property Tax and City Rates	...	...	...	...	...	69	17	8			
	Waterworks Company's Rates	...	...	...	...	...	15	2	0			
	Gardeners' Licence	...	...	...	...	...	2	5	0			
104										107	4	8
	Insurance :											
	Fire and Plate Glass	...	...	...	...	...	18	14	6			
	Boiler	...	...	...	...	...	8	3	0			
	Employers' Liability	...	...	...	...	...	5	12	6			
	Fidelity Guarantee	...	...	...	...	...	1	10	0			
	National Health and Unemployment	...	...	...	...	...	27	19	3			
67										61	19	3
	Salaries and Wages :											
	Museums	...	...	...	...	...	1476	11	2			
	Lodge and Gardens	...	...	...	...	...	561	19	0			
	Staff Pensions	...	...	...	...	...	127	0	0			
2340										2165	10	2
	General Expenses, Repairs and Renewals :											
	MUSEUMS—											
	Repairs	...	...	...	...	...	15	13	10			
	General Expenses	...	...	...	...	...	66	12	5			
68										82	6	3
	GARDENS—											
	General Expenses	...	...	...	...	...	58	13	7			
	Bowling Green	...	...	...	...	...	9	5	2			
90										67	18	9
	ESTATE—											
	General Expenses	...	...	...	...	...	118	2	1			
76										118	2	1
234										268	7	1
	Lighting and Heating :											
95	Coal and Coke	...	...	...	...	...	93	13	6			
10	Gas	...	...	...	...	...	12	11	0			
72	Electricity	...	...	...	...	...	70	10	1			
177										176	14	7
	Printing and Stationery :											
15	General	...	...	...	...	...	29	11	3			
46	Annual Reports and Proceedings	...	...	...	...	...	24	0	6			
61										53	11	9
55	Lecture Fees	...	...	...	...	...	...	...	...	52	10	0
	Miscellaneous :											
29	Picture Postcards, etc.	...	...	...	...	...	...	...	...	18	2	6
14	Telephone Rent and Calls	...	...	...	...	...	...	...	...	13	10	0
12	Postage and Receipt Stamps	...	...	...	...	...	...	...	...	14	10	0
	Cheque Book	...	...	...	...	...	...	...	...	2	0	0
	Balance—Excess of Income over Expenditure						...	...	...	£2934	0	0
							...	...	...	440	9	6
										£3374	9	6
	Balance brought forward from last year	...	...	...	...	...	...	...	...	33	4	2
39	Transfer to Fabric Fund	...	...	...	...	...	...	...	...	41	5	6
4	Additions to Museum	...	...	...	...	...	...	...	...	21	2	0
—	„ „ Gardens—New Greenhouse	210	8	5
39	„ „ Library	44	19	0
	Balance carried forward	89	10	5
										£440	9	6

£440 9 6.

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ST. MARY'S ABBEY RESTORATION FUND, 1934.

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STATEMENT OF FUND.

	£	s.	d.
To Subscriptions received to 31st Dec., 1934	... 431	0	5
" Champney Bequest 2141	15	7
" Y.P.S. General A/c. ... ..	... 1944	12	0
" Fabric Fund ... ..	... 377	13	5
" St. Mary's Abbey Wall Fund ...	... 28	1	10
" War Stock Interest ... ..	... 12	7	0
" Profit on Sale of War Stock ...	... 3	4	4
" Amount due to Midland Bank, Ltd.	... 263	19	4
	£5202	13	11

Dr.

FABRIC FUND, 1934.

Cr.

INCOME.			EXPENDITURE.		
£	s.	d.	£	s.	d.
To Balance brought forward	...	1 6 2	By St. Mary's Abbey Restoration Fund	...	41 5 6
„ 1 st Income Tax recovered	...	41 5 6	„ Balance ...	...	1 6 2

THE YORKSHIRE PHILOSOPHICAL SOCIETY.

LIABILITIES.

	£	s.	d.	£	s.	d.
General Fund.				44,910	5	3
Balance of Income and Expenditure Account ...	89	10	5			
Subscriptions paid in advance	10	10	0			
				<hr/>	100	0 5

45,010 5 8

Funds for Specific Purposes.

Mr. Wm. Reed Bequest	692	3	0
Million Shilling Fund	47	9	7
Fabric Fund	1	6	2
Overdraft at Midland Bank, Ltd. St. Mary's Abbey Restoration Fund	263	19	4

£46,015 3 9

The Values of the Investments are stated as at the date of acquisition.

The Market Value at 31st December, 1934 was £50,633 13s. 9d.

The properties 32 and 34 Bootham (Dr. Anderson Bequest) and St. Mary's Lodge, Baths Cottage, 10 Bootham, and the properties within the Museum Gardens are not valued for purpose of this Balance Sheet.

GENERAL BALANCE SHEET, 31st December, 1934.

ASSETS.

General Fund.

INVESTMENTS.

DR. TEMPEST ANDERSON BEQUEST.

	£	s.	d.	£	s.	d.
£4,314 13s. 2d. 3½% War Stock	4,163	3	9			
£2,000 4½% Conversion Stock, 1940-44	2,000	0	0			
£8,000 Dominion of Canada 4% Reg. Stock, 1940-1960	7,904	7	0			
£8,000 New Zealand Govt. 4% Inscribed Stock, 1943-63	7,968	14	6			
£5,777 2s. 6d. South Indian Railway Co. Ltd., 4% Regd. Deb. Stock, 1945	5,400	0	0			
£5,700 L. & N.E. Railway 4% 1st Prefce. Stock... }	8,131	9	0			
£2,500 L. & N.E. Railway 4% 2nd Guar. Stock ... }						
£3,219 3s. 5d. Bank of England Stock	7,967	11	0			
Deposit at Midland Bank, Ltd.	45	0	0			
				43,580	5	3

MR. RAWDON BEQUEST.

£918 8s. 9d. India 3% Registered Stock	1,000	0	0
---	-------	---	---

MR. ST. QUINTIN BEQUEST.

£247 11s. 2d. 3½% Conversion Stock	250	0	0
---	-----	---	---

BANK BALANCES.

Midland Bank Ltd. Deposit Account	80	0	0
do. Current Account	100	0	5
	180	0	5

45,010 5 8

Funds for Specific Purposes.

MR. WM. REED BEQUEST.

£600 York Corporation 3% Redeemable Stock	600	0	0
Midland Bank Ltd. Deposit Account	50	0	0
do. Current Account	42	3	0
	692	3	0

Balance at Midland Bank Ltd. (Million Shilling Fund)... ..	47	9	7
---	----	---	---

Balance at Midland Bank Ltd. (Fabric Fund)	1	6	2
---	---	---	---

St. Mary's Abbey Restoration Fund (Deficit)	263	19	4
--	-----	----	---

£46,015 3 9

Auditor's Report :—

I have compared the above Balance Sheet and foregoing Accounts with the Books, Accounts and Vouchers relating thereto, and certify them to be correct. I have verified the existence of the Cash Balances and investments.

York: 22nd January, 1935.

ARTHUR D. GLADWIN, F.L.A.A.

S. WALKER, *Hon. Treasurer.*

Details of Dividends and Interest, 1934, carried into the
General Income and Expenditure Account.

DR. TEMPEST ANDERSON BEQUEST.

<u>Capital.</u>				<u>Net Income.</u>		
	£	s.	d.	£	s.	d.
£4,314 13s. 2d. 3½% War Stock	151	0	2			
£2,000 4½% Conversion Stock, 1940-44	90	0	0			
£8,000 Dominion of Canada 4% Registered Stock ...	244	0	0			
£8,000 New Zealand Government 4% Inscribed Stock, 1943-63	320	0	0			
£5,777 2s. 6d. South Indian Railway Co. Ltd., 4% Registered Debenture Stock, 1945 ...	176	4	0			
£5,700 London & North Eastern Railway 4% First Preference Stock	85	10	0			
£2,500 London & North Eastern Railway 4% Second Guaranteed Stock	76	5	0			
£3,219 3s. 5d. Bank of England Stock	294	11	1			
£45 Deposit at Midland Bank		13	5			
Rents of Shops and Dwelling-houses, Nos. 32 & 34, Bootham	65	0	0			
	1,503	3	8			
Income Tax recovered (1 year)	287	16	10			
				1,791	0	6

MR. RAWDON BEQUEST.

£918 8s. 9d. India 3% Registered Stock	27	11	0
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MR. ST. QUINTIN BEQUEST.

£247 11s. 2d. 3½% Conversion Stock	7	11	7
Income Tax Recovered	1	1	7
			8 13 2
£80 Deposit at Midland Bank, Ltd.			1 3 10
Bank Interest, less Commission			6 19 0
			<u>£1,835 7 6</u>

Memo :—The above items are shown less tax, if deducted.

The Yorkshire Museum, YORK.

Report of the Museum Committee FOR THE YEAR 1934.

PRINTED BY ORDER OF THE COUNCIL.
1935.

THE YORKSHIRE MUSEUM,

YORK.

Keeper :

WALTER E. COLLINGE, D.Sc., M.Sc., F.S.A., F.L.S.,
M.B.O.U., Hon. F.R.H.S.

Honorary Curators :

ARCHÆOLOGY - - - W. HARVEY BROOK.

ROMAN ANTIQUITIES - REV. A. RAINE, M.A.

ZOOLOGY - - - SYDNEY H. SMITH, J.P., F.Z.S.

ENTOMOLOGY - - - S. WALKER, F.R.E.S.

CONCHOLOGY - - - H. SOWDEN.

ASTRONOMY - - - J. SCOTT.

NUMISMATICS - - - GEOFFREY THOMPSON, M.A., F.S.A.

CERAMICS - - - ARTHUR HURST, A.K.C.

Assistants : { MISS E. HOLMES.
 { FRANCIS T. G. WHITE.

Chief Clerk : ARTHUR COLLEY.

Museum Attendant :

WILLIAM RAFTON.

Hospitium Attendant :

MISS G. FISHER.

THE YORKSHIRE MUSEUM.

REPORT FOR THE YEAR 1934.

WORK in the Museums has continued with unabated interest.

The Museum of Mediaeval Architecture has been cleaned, rearranged and catalogued. On October 8th, the Council passed the following resolution to the Honorary Curator of this department :

“The Council wish to express to Mr. W. Harvey Brook their great appreciation of the valuable work he has so successfully carried out in the Museum of Mediaeval Architecture, making it second to none in the country.”

The Keeper has devoted considerable time to the preparation of a MS. Catalogue of the contents of the Museum of Roman Antiquities. The contents of the Upper room have been rearranged and the Catalogue is well advanced.

The large collection of potters' marks has been classified in alphabetical order. Including a number of doubtful or unidentified ones, there are upwards of eleven hundred in the collection.

Upwards of five hundred new labels have been added to the various cases.

All the portraits, pictures, prints, engravings, etc., in the Museum have been examined and rewired.

The collection of photographic negatives of objects in the Museum have been labelled and classified.

During Civic Week, June 18th to 23rd, the Museums were re-opened from 6 p.m. to 9 p.m., and large numbers of visitors to the City availed themselves of this opportunity of visiting the various Collections.

Although the space available is extremely limited, a few chairs have been placed at the ends of the gangways ; these have been much appreciated by visitors.

The Yorkshire Numismatic Society held its Summer Meeting in the Museum on July 21st, when Mr. Geoffrey Thompson exhibited numerous coins from the Museum Collections.

On August 11th, the Museum was honoured by a visit of the Members of the International Congress of Anthropological and Ethnological Sciences.

The Yorkshire Architectural and York Archaeological Society continues to hold its meetings and house its Library in the Museum.

SPECIAL EXHIBITS. In addition to recent donations, special exhibits have been made of the Oxley Grabham Collection of Mammal skins ; the collection of Palaeolithic Implements presented by Major E. R. Collins ; and on September 27th, 28th and 29th a collection of living examples of various species of Fungi, arranged by the members of the Natural History Section, were on exhibition in the Tempest Anderson Hall.

EDUCATIONAL WORK. During the year 414 children from schools in the City attended the Museum for study and instruction, and 253 students from the City School of Arts and Crafts.

The number of schools and other organizations which have visited the Museums establishes a further record. (For full list see p. 36).

The Museum has co-operated with the Yorkshire Area of the Central Council for Broadcast Adult Education, in respect of the seven Talks given on Friday evenings from May 18th to June 29th, entitled "Along the Roman Roads."

It is with a sense of satisfaction that we notice the increasing number of specialists who continue to study and examine the Collections. In the past year they have been studied by Major I. H. Mackay Scobie, Scottish National Naval and Military Museum, Edinburgh ; Ian W. Richmond, M.A., F.S.A., Rochdale ; Alfred G. Lockhead, A.R.I.B.A., Glasgow ; Miss Wilhelmine Hagen, Bonn ; Horace C. Beck, F.S.A., Fittleworth ; Leslie Bairstow, B.Sc., British Museum (Nat. Hist.), London ; James Wright, F.R.S.E., Edinburgh ; J. H. Rutherford, F.R.I.B.A., York ; E. T. Leeds, M.A., F.S.A.,

Ashmolean Museum, Oxford ; T. D. Cohen, F.S.A., Shotley Bridge ; Prof. Bruce Dickens, M.A., the University of Leeds ; the Rev. George H. Richardson, Sc.D., Ph.D., Oswaldkirk ; J. C. Stanfield, London ; Miss E. Hurst, the University of Leeds ; Dr. Haakon Shetelig, Bergen ; H. J. Maryon, Armstrong College, Newcastle-on-Tyne ; Dr. Fremersdorf, Cologne ; Lt.-Col. G. R. B. Spain, C.M.G., F.S.A., Newcastle-on-Tyne ; Dr. G. Hasse, the Royal Museum of Natural History, Antwerp ; J. S. Syme, F.R.I.B.A., York ; Miss M. E. J. Chandler, British Museum, London ; Dr. W. J. Arkell, M.A., University Museum, Oxford ; Miss Fell, Cambridge ; Ivan Moore, Bradford ; Miss E. Senior, British Museum, London ; Kenneth W. Sanderson, Leeds ; R. W. Murray, Churchdown ; J. N. L. Myres, M.A., F.S.A., Oxford ; Sir J. F. Colyer, K.B.E., F.R.C.S., London, and G. C. Dunning, B.Sc., F.S.A., London Museum.

Turning to the different departments of the Museum :—

MEDIAEVAL ARCHITECTURE.—The following is a brief résumé of the work done in regard to the collections housed in the Museum of Mediaeval Architecture, in the years 1933 and 1934.

With the exception of one bay on the north side of the vestibule of the Chapter House, the whole collection has been cleaned, the floors, walls and pillars washed : many details rearranged and renumbered, as well as refixed, with lead wedges under the bed of the stones, to prevent chipping of the edges and to poise them securely.

The details of St. William's Tomb-Shrine, the canopies and cornice, fragments of the stone parclose which surrounded it, when it stood in the nave of the Minster, have been carefully cleaned, rearranged and renumbered : as also the fragments of the Chapter House wall-arcade and other details of St. Mary's Abbey, found during the recent underpinning and restoration work at the King's Manor. The annexe to the museum of mediaeval architecture has been also thoroughly cleaned, and all these fragments renumbered, and where necessary, lead wedges inserted.

A small collection of mortars, including a receptacle for a heart-burial in the form of a font—all formerly in the Hospitium, has been cleaned and placed on two shelves on the east wall of the annexe.

The specimens of tiles in the great tile case in the entrance vestibule have been, with some exceptions, cleaned, and all have been sketched and measured by the Honorary Curator—two hundred and forty-two of them.

At the foot of the stairs, several architectural details of lead work—rain water heads of fall pipes and the accumulations of years—have been fixed to the north wall. A few wooden Elizabethan, Jacobean and Renaissance mouldings have also been set up.

A second hand-rail, to assist persons descending the stairs, has been fixed on the south wall of the staircase leading to the Mediaeval Museum.

The walls of the areas outside the windows of the west end of the great hall of the Museum of Mediaeval Architecture, have been covered with cream-coloured cement wash to give increased light and thus lessen the need for artificial illumination.

The fine wrought iron gates, early eighteenth century work of Micklegate House, presented to the Society by the late S. Scruton, Esq. of Messrs. Raimes & Co., some years ago, have, at the suggestion of the Honorary Curator, been placed against the east wall of the corridor at the back of the Fireplace of the Calefactory: an adjustment of the arrangement of the mediaeval stone coffins will be made to show the lower part of the ironwork to better advantage.

A new direction board bearing the legend “To the Museum of Mediaeval Architecture” has been placed above the stairs leading to the Museum.

DONATIONS TO THE COLLECTION.

1. A water-colour sketch of Castlegate Postern.
2. Six photographs (old wet plates) by W. Monkhouse, date circa 1860. Two, showing the north aisle wall and north west pier of the campanile (tower), and the vestibule of the Chapter House, with Professor Phillips leaning over a small pillar, have been framed by the Honorary Curator, and hung in the annexe.
3. A cast heavy lead decorative panel of a rain-water head of a fall pipe, said to be from York Minster, showing a heraldic gryphon.

DR. ARTHUR PHILLIPS.

Three fragments of early cut brickwork and terra-cotta, one having a lion passant regardant in bold relief, and conventional ornament above it.

H. SOWDEN, Esq.

A small piece of a carved bargeboard, 16th cent. from a house lately pulled down, in North Street, York, and an interesting spur-bracket, late 15th cent. from No. 118, Walmgate, recently demolished.

GIVEN ANONYMOUSLY.

One detail of the south jamb of South Window of the Chapter House of St. Mary's Abbey.

F. W. Laughton, Esq.

A fine middle Norman period cap—similar to the work in the Crypt of Canterbury Cathedral—abacus fractured, and most skilfully mended by a friend.

GIVEN ANONYMOUSLY.

A fine small base of a pillar of the same period.

GIVEN ANONYMOUSLY.

A small grit-stone mortar found at Addingham, Yorkshire, given by MISS M. L. THOMPSON.

Centre of the head of a standing cross of the middle Saxon period, found in the Mount district of York. Presented by the HON. CURATOR.

The Honorary Curator has written a number of descriptive notices of objects of particular interest in various parts of the Museum of mediaeval antiquities—the Neville and Skirlaw shields from the gateway of the Carmelite Friary in Fossgate—the panel from the tomb of Archbishop Richard Scrope—the tomb of the “boy knight,” discovered during the choir excavations in 1912-13: also a quotation from Hart's “History of Gloucester Abbey,” now the cathedral, quite the most beautiful description of the tragedy of the Suppression ever written: and various other descriptions relating to the Shrines from the Minster, etc., etc., these he has framed and hung up.

An engraving of the “Great Excavation” of 1827, showing the site of the present museum occupied by the walls and pillars of the monastery, which were in many cases grubbed up to make way for the new building. Given by the Honorary Curator.

A sheet of coloured "*tricks*" of the differenced arms of de Vescy, le Latimer, Goldsborough, etc., has been framed and placed on the pillar at the head of the effigy of Sir John de Vescy. Lent by the Hon. Curator.

A short notice of Archbishop Scrope, together with an achievement of his arms taken from the shield on the spandrel of the arch of the fifth bay of the South Arcade of the Choir of the Minster, has been framed and hung in the Slype.
Lent by the Hon. Curator.

In conclusion, the Honorary Curator wishes to thank a friend, who desires to remain anonymous, from whom he has received the greatest possible assistance in all his work for the Society's mediaeval collections for many years, and to whom must be ascribed the success of the work done in the last two years in the mediaeval museum.

The work entailed in dealing with the details of such a collection as that in the Museum of Mediaeval Architecture is exceedingly strenuous, requiring infinite patience, research, enthusiasm, taste, judgment, and money to carry out various ideas as they present themselves. Having, in conjunction with the late Edwin Ridsdale Tate, L.R.I.B.A., resolved the ultimate form the collection was to take, the Honorary Curator has gradually evolved order out of the chaotic mass of material which had (and still continues to do) accumulated in the course of nearly a century; but very much more work remains to be done. He now feels that the time is passed when he can bring the same energy and strength to continue usefully as the sole motive power to achieve the realisation of the ideal he set before himself at the outset.

ETHNOLOGY. Many of the Cinerary Urns in the Mitchelson Collection show signs of disintegration. The worst of these have been treated, and it is hoped to complete the remainder early in the new year.

GEOLOGY. The catalogue of type specimens has been brought up to date.

ASTRONOMY. All the instruments are in good adjustment and order, and various observations have been made. The webs of the Transit Instrument have been renewed during the year. The Observatory is open to members on lecture nights, providing the weather is favourable, and at other times by arrangement.

NUMISMATICS. During the year the collections have been maintained in an efficient state which facilitates easy reference by students. The Society has acquired by exchange a number of coins minted at York, and it is felt that every effort should be made to specialise in coins and tokens of Yorkshire, and especially of York.

The collection of Medals is now provisionally classified and labelled, though it is not yet possible to incur the cost of the proper permanent cabinet-fittings to house them.

ZOOLOGY. The whole of the Collections have been maintained in good order. Amongst the chief additions are a skin of Sabine's Gull, female, shot at Bridlington, December 2nd, 1907, presented by Mr. C. Allen; two Flying Squirrels presented by the Rev. W. H. Elmhirst; a very fine case of Toucans, presented by Mr. A. H. Mackay, and a Madreporian coral presented by Miss Sylvia Corner, O.B.E.

Sabine's Gull is distinguished by a narrow black collar forming a pretty contrast with the pure white and dove grey of the general outline. This rare gull is about fourteen inches in length. It is circum-polar in habitat, and frequents the Pacific Ocean as far South as Bermuda, but is said not to occur below these Islands. The specimen is of interest as one of the very few British records. Sabine's Gull prefers the wide ocean spaces to the vicinity of land.

Toucans are natives of Brazil where some fourteen species have been described. Attaining a length sometimes of three feet, the gaily-coloured fruit-eating bird is both handsome and impressive, more particularly because of the huge and apparently unwieldy bill. This, however, is extraordinarily light, and far from being a handicap to the owner, is of great value, not only in dealing with the hard husks of nuts and fruit, but as an aid to climbing about the tree tops which are its favourite haunt.

Flying Squirrels are somewhat similar in general appearance and colour to the well-known American Grey Squirrel. They are, however, about one-third larger and have more prominent ears. They are natives of Western Africa and do not appear to have been described by recent observers, and very little is known of their food and general habits. There is a curious membraneous webbing of furry skin situated between and joining with the front and hind legs so that when the legs are fully extended during the period of jumping from one tree to another, the webs offer additional support

as of planes in flight, and enable the creature to make prodigious long jumps during its arboreal peregrinations. The specimens in question do not shew the web to its best advantage but are unmistakable in their existence.

LIBRARY. During the year 39 volumes have been added by purchase, and 4 by presentation, in addition to the usual unbound memoirs.

The number of volumes borrowed was 271.

METEOROLOGY. Statistics of Station: Longitude $1^{\circ} 5' W.$; Latitude $55^{\circ} 57' N.$; height above mean sea level, 56 feet.

The rainfall for 1934 was below normal, being 22.79 inches, 2.71 inches below the average for over 50 years. The wettest months of the year were January, February, March, April, June and December, when the totals for the months were: 1.66, 1.68, 1.95, 2.39, 2.11, and 4.60 respectively. May, August and October were the driest months with 1.00, 1.42 and 1.35 inches respectively.

Temperature ranged from $87^{\circ} F.$ on July 11th to $26^{\circ} F.$ on February 2nd; the range of temperature for 1934 being thus: $61^{\circ} F.$ as against $68^{\circ} F.$ for 1933. A mean pressure of 1013.9 millibars (1,000 millibars= 29.531 inches of mercury) at M.S.L. (corrected for diurnal variations) have been recorded as against 1016.4 millibars for 1933. December gave the lowest mean for the year, 1000.5 millibars, March next with 1004.5 millibars. February was highest, 1029.8 millibars, and June next with 1018.6 millibars. The extreme range was 2.103 inches as compared with 1.19 inches in 1933. The highest reading of the barometer was taken February 1st at 9 a.m., viz.; 30.763 inches, and the lowest on January 13th at 9 p.m., viz.; 28.660 inches.

Snow or Rain fell to the amount of 22.79 inches or 578.9 mm., as against 23.02 inches or 584.8 mm. for 1933, a decrease of .23 inches or 5.9 mm. for the year. The heaviest fall of the year occurred on February 27th when 40.6 mm. (1.60 inches) fell. The cumulative totals for the years since 1820 are, for the heaviest monthly falls, August 6000.35 mms., October 5753.48 mms., and July 5432.30 mms.

Observations of Winds show that during 1934 we had "strong" winds on 7 days (force 4-7 on scale 0-10), 4 days more than 1933, and "calm" on 4 days the same as in 1933. The chief winds have been observed as S. (116), N. (65), W. (61), S.W. (35), N.W. (31) and N.E. (18).

Thunder was heard on 6 days, snow or sleet fell on 3 days, as against 19 days in 1933 ; and there were hailstorms on 4 days, as against 2 days the previous year.

Bright Sunshine was recorded 1369.2 hours as against 1379.7 hours in 1933, a decrease of 10.5 hours for the year. The daily mean was 3.75 hours, and the percentage of possible sunshine 31, the same as in 1933.

It is urgently requested that any discovery of Archaeological interest in the neighbourhood may be brought to the notice of the Keeper of the Museum, or the Honorary Curators, as early as possible.

The Keeper of the Museum will be pleased to give any information in his power, and may be seen daily, Museum engagements permitting.

LIST OF SCHOOLS

AND OTHER ORGANIZATIONS THAT HAVE VISITED THE MUSEUMS DURING 1934.

- Feb. 12th—York Day School of Commerce.
- Feb. 13th—York Day School of Commerce.
- Mar. 29th—Hutton Modern School, Bradford.
- Mar. 31st—Woolwich & District Antiquarian Society.
- April 6th—Linthorpe Church of England School.
- April 16th—Cherwell Council School, Morley.
- May 2nd—Free Church Choir, South Shore, Blackpool.
- May 4th—Lily Lane School, Moston.
- May 10th—Ripon Training College.
- May 10th—Heckmondwike School.
- May 10th—Girls from the College de Jeunes Filles, Peronne.
- May 10th—Woodhouse Grammar School, Sheffield.
- May 10th—West Derby Church of England School.
- May 11th—Wakefield Technical College.
- May 12th—Grove Street School, Barnsley.
- May 12th—Ackworth Girls' School.
- May 25th—Modern School, Milnsbridge, Huddersfield.
- May 26th—Bingley Training College.
- May 26th—Hastings Central School.
- May 31st—The Cleveland Literary & Philosophical Society,
Middlesbrough.
- May 31st—The York Settlement.
- June 1st—Leeds College of Commerce.
- June 2nd—Wheelwright Grammar School, Dewsbury.
- June 2nd—Sedgley Park College.
- June 6th—St. Peter's Club, Middlesbrough.
- June 7th—Hyde Park Senior Boys' School, Doncaster.
- June 8th—Bilton School, Hull.
- June 8th—Sharrow Lane School, Sheffield.
- June 8th—Sowerby Bridge Secondary School.
- June 9th—Batley Grammar School.
- June 9th—Spenn Valley Literary & Scientific Society.
- June 12th—Mothers' Union, Southport.
- June 12th—Hyde Park Council Senior Boys' School, Doncaster.

- June 12th—Mothers' Union, Grimsby.
- June 12th—Mary Stanwick Modern School, Chesterfield.
- June 14th—Chartered Surveyors' Institute.
- June 14th—St. Mary's Mothers' Union, Liverpool.
- June 15th—Elwick Road Central School, West Hartlepool.
- June 16th—Castleford Grammar School.
- June 16th—Gargrave Council School.
- June 16th—Church of England Girls' School, West Derby.
- June 16th—St. Paul's Church of England School, Kirkdale.
- June 16th—St. Patrick's Church Mothers' Union, Partrington.
- June 16th—Church of England Girls' School, Walton.
- June 16th—Bootle Secondary School.
- June 16th—St. Mary's College, Crosby.
- June 18th—South Bank Labour Party.
- June 20th—Mansfield Habitation Primrose League.
- June 22nd—Pickhill School.
- June 23rd—Lees Council School.
- June 23rd—Newmarske Church School.
- June 26th—Wighill School, Tadcaster.
- June 26th—Beverley Grammar School.
- June 26th—West Leeds High School.
- June 27th—Wadsworth Old Town Council School.
- June 27th—Tramwellgate Moor Council School.
- June 29th—Springburn St. Boys' School, Hull.
- June 29th—Alderman Wood Secondary School, Stanley.
- June 30th—Rosehill Council School, Rawmarsh.
- July 3rd—Airedale Girls' School, Castleford.
- July 6th—The Ellis Central School, Basford.
- July 6th—Thorpe Modern School, Idle.
- July 6th—Dinnington Junior Technical School.
- July 9th—Emmanuel Women's Meeting, Sunderland.
- July 9th—Worsbro' Old People.
- July 10th—Airedale Girls' School, Castleford.
- July 11th—Ferham Girls' School.
- July 13th—Ecclesfield Grammar School.
- July 16th—Spurley Hey Central School, Rotherham.
- July 17th—Airedale Girls' School, Castleford.
- July 18th—Nether Edge Secondary School.
- July 18th—British Pharmaceutical Conference.
- July 19th—Roundhay High School.
- July 20th—City of Leeds School.
- July 20th—Whitburn Council School.
- July 20th—Breeze Hill Secondary School for Girls, Bootle.
- July 20th—Harrogate College.
- July 21st—Tong Park Council School, Baildon.
- July 21st—Marlcliffe Intermediate School, Sheffield.
- July 26th—Potteries Council School—A.

July 27th—Osballdwick Church of England School.

July 28th—Bournville Youths' Club.

July 31st—Potteries Council School—B.

Sept. 13th—Pontefract Road Girls' School, Castleford.

Sept. 29th—Thurnscoe Hill Girls' School, Rotherham.

Oct. 12th—Cross Flatts School, Leeds.

Oct. 13th—Denby Church of England School.

Dec. 18th—St. Stephen's School, Kirkstall, Leeds.

CLIMATOLOGICAL SUMMARY—THE YORKSHIRE MUSEUM, YORK, 1934.

Heights above Ground :—Thermometers 4 ft. Rain-gauge 1 ft.

Air Temperature in Degrees Fahrenheit.										Earth Temperature		Rainfall.				Weather.						Bright Sunshine.					
Means of			Means of Max. + Min.	Absolute Extremes.								At 1 ft.	At 4 ft.	Total.		Maximum Fall.		Day.	Number of Days of						Total.	Daily Mean.	Per cent.
Max.	Min.	H. Max.		Day.	L. Min.	Day.	L. Max.	Day.	H. Min.	Day.	in.			mm.	in.	mm.	Precipitation 0.2 mm. or more.		Precipitation 1 mm. or more.	Snow.	Snow Lying.	Hail.	Thunder storm				
° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	hr.	hr.	hr.	%		
Jan.	45.2	35.6	40.4	56	17	29	25	38	22, 25	44	7	11, 13	0.34	8.6	1.66	42.2	14	12	0	0	0	0	44.9	1.45	18		
Feb.	47.5	35.3	41.4	55	15	26	2	38	2	43	21, 22	27	1.60	40.6	1.68	42.7	4	2	2	2	0	0	99.7	3.56	37		
March	47.0	35.3	41.1	58	25	27	1	39	14	42	26	10	0.43	10.9	1.95	49.5	20	16	1	3	1	0	81.2	2.62	22		
April	53.7	39.4	46.5	69	15	28	7	45	2, 4, 6, 9	47	14	25	0.39	9.9	2.39	60.7	15	12	0	0	1	1	111.3	3.71	27		
May	61.0	44.4	52.7	75	11	35	17	51	15, 18	55	22	6	0.31	7.9	1.00	25.4	11	7	0	0	2	0	178.3	5.75	36		
June	67.1	49.6	58.3	80	16	41	3	57	5, 7, 24	61	16, 17	8	0.60	15.2	2.11	53.6	11	10	0	0	0	0	176.3	5.87	35		
July	75.0	55.7	65.3	87	11	49	15	66	14, 24	62	30	18	0.35	8.9	1.52	38.6	9	8	0	0	0	2	255.4	8.24	50		
August	68.9	52.3	60.6	74	1, 8, 10	41	25, 31	61	29	59	7, 8	1	0.38	9.7	1.42	36.1	13	9	0	0	0	2	163.7	5.28	36		
Sept.	67.6	49.8	58.7	78	14, 15	41	1	55	24	61	8	29	0.38	9.7	1.43	36.3	15	11	0	0	0	1	138.9	4.63	36		
October	56.4	45.1	50.7	68	7	30	31	39	31	55	1, 11	30	0.15	3.8	1.35	34.3	19	14	0	0	0	0	72.2	2.33	22		
Nov.	48.3	39.4	43.9	54	23, 27	28	1	40	8	49	23	9	0.61	15.5	1.68	42.7	13	10	0	0	0	0	40.6	1.35	16		
Dec.	49.2	42.0	45.6	55	8	35	21	43	21, 25	50	3	6	0.64	16.3	4.60	116.8	26	20	0	0	0	0	6.7	0.22	3		
Totals	686.9	523.9	605.2	—	—	—	—	—	—	—	—	—	—	—	22.79	578.9	170	131	3	5	4	6	1369.2	45.01	—		
Means	57.2	43.7	50.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.75	3.75	31		

CLIMATOLOGICAL SUMMARY—THE YORKSHIRE MUSEUM, YORK, 1934.

Latitude 53° 57' N. Longitude 1° 5' W. Height above Mean Sea Level 56 ft.

1934.	Mean Pressure corrected to 32° F. and lat. 45° and reduced to Mean Sea Level.				Air Temperature		Humidity.				Mean Amount of Cloud, 0-10	Cloud Amount, 9 a.m.	Wind, No. of Observations, 9 a.m.																		
	9 a.m.	9 p.m.	9 a.m.	9 p.m.	° F.	° F.	Depression of Wet Bulb.		Vapour Pressure.		Percentage.		No. of Observations.				(Beaufort Scale).				Direction.										
							9 a.m.	9 p.m.	9 a.m.	9 p.m.	9 a.m.	9 p.m.	0	1-3	4-6	7-9	10	10 to ∞	1-3	4-7	Cal.	N	NE	E	SE	S	SW	W	NW		
																														° F.	° F.	mb.	mb.	%	%
Jan.	1016.5	1016.9	30.02	30.03	38.9	39.7	1.7	1.9	6.8	7.0	84	83	7.0	7.5	5	2	5	1	18	0	1	29	1	2	0	0	1	15	2	7	3
Feb.	1029.8	1029.4	30.41	30.40	39.1	39.9	2.2	2.0	6.4	6.9	79	82	5.3	5.4	9	2	4	4	9	0	1	27	0	5	2	0	1	2	7	7	4
Mar.	1004.8	1004.5	29.67	29.66	40.5	40.3	2.6	1.8	6.7	7.1	77	84	6.5	4.8	7	3	2	2	17	0	0	31	0	7	3	1	2	11	1	5	1
April	1007.8	1008.7	29.76	29.79	46.2	45.1	2.9	2.8	8.2	7.9	77	77	7.4	6.0	3	3	5	2	17	0	0	30	0	9	2	1	4	6	3	2	3
May	1017.8	1018.4	30.06	30.07	53.7	51.6	4.8	4.0	9.8	9.6	69	73	6.5	4.6	5	3	5	4	14	0	1	30	0	5	2	1	2	8	2	8	3
June	1018.6	1018.4	30.08	30.07	58.8	56.7	4.6	3.5	12.4	12.4	73	78	6.2	6.5	6	3	3	5	13	0	1	29	0	10	4	2	1	6	2	2	3
July	1016.9	1017.1	30.03	30.03	65.7	63.5	6.3	5.2	14.7	14.0	67	71	4.4	4.5	10	5	4	5	7	0	0	30	1	6	2	2	4	6	3	5	2
Aug.	1010.8	1012.1	29.85	29.89	60.2	59.0	4.4	3.2	13.1	13.8	74	81	7.4	5.6	3	1	5	8	14	0	0	31	0	4	0	1	4	11	3	4	4
Sept.	1013.8	1014.2	29.94	29.95	57.6	57.5	3.0	3.3	13.4	12.6	82	79	5.3	4.5	6	6	4	6	8	0	1	28	1	3	0	1	3	14	3	4	1
Oct.	1011.6	1011.3	29.87	29.86	50.8	49.6	3.0	2.4	10.1	10.2	79	83	7.3	6.9	4	3	1	7	16	0	2	29	0	3	0	0	0	12	4	8	4
Nov.	1017.6	1017.3	30.05	30.04	42.9	43.5	1.6	1.3	8.1	8.4	87	89	7.6	6.6	3	2	4	3	18	0	0	29	1	10	1	1	0	4	3	8	2
Dec.	1000.5	1000.7	29.55	29.55	44.7	45.5	0.9	1.1	9.5	9.3	93	91	9.2	8.1	0	0	3	2	26	0	0	31	0	1	2	1	2	21	2	1	1
Totals	12166.5	12169.0	—	—	599.1	591.9	38.0	32.5	119.2	119.2	941	971	80.1	71.0	61	33	45	49	177	0	7	354	4	65	18	11	24	116	35	61	31
Means	1013.9	1014.1	29.94	29.95	49.9	49.3	3.2	2.7	9.9	9.9	78	81	6.7	5.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Pressure is expressed in millibars (1,000 millibars = 29.531 mercury inches), also in mercury inches,

RAINFALL IN 1934
AT CHERRY HILL, YORK.

Rain Gauge: Dia. of Funnel, 5 in.;
Height above Ground, 1 ft. 6 in.

“ “ Sea level, about 50 ft.

Month.	Bright Sunshine.				Pressure at Mean Sea Level.			
	Daily Mean. 1934.	Per-centage.		1934.	Absolute.			
		1933.	1934.		Highest.	Date.	Time.	Lowest.
	hr.	%	%	mb.				mb.
Jan.	1.45	13	18	1040.5	31st	9 a.m.	9 a.m.	972.1
Feb.	3.56	23	37	1048.0	15th	9 a.m.	9 a.m.	1006.2
Mar.	2.62	37	22	1030.0	25th	9 a.m.	9 a.m.	969.5
Apr.	3.71	24	27	1024.5	30th	9 a.m.	9 a.m.	983.9
May	5.75	24	36	1031.2	11th	9 a.m.	9 a.m.	991.9
June	5.87	46	35	1029.7	2nd	9 p.m.	9 a.m.	999.6
July	8.24	42	50	1027.9	8th	9 a.m. } 9 p.m. }	9 a.m. }	1001.7
Aug.	5.28	45	36	1026.0	26th	9 a.m.	9 a.m. }	993.8
Sept.	4.63	39	36	1030.4	12th	9 p.m.	9 p.m.	999.3
Oct.	2.33	21	22	1029.6	8th	9 a.m.	9 p.m.	979.7
Nov.	1.35	14	16	1035.8	24th	9 p.m.	9 p.m.	988.5
Dec.	0.22	9	3	1023.9	1st	9 a.m.	9 a.m.	971.1
Year.	45.01 3.75	31	31	1048.0	Feb. 15th	9 a.m.	9 a.m.	969.5
					Mar. 15th			

Month.	Total Rain-fall for month.	Days with .01 in. or more.	Days with .04 in. or more.	Date of Highest Rainfall	Amt. in ins.
Jan.	1.60	15	10	13/14	.43
Feb.	1.88	4	2	27	1.7
Mar.	1.80	16	15	10/11	.66
April	2.24	14	11	28/29	.38
May	.95	10	6	5/6	.39
June	1.73	11	9	8	.64
July	1.52	8	8	13	.29
Aug.	1.00	20	9	1	.38
Sept.	2.45	17	10	1/2/3	.45
Oct.	1.02	16	12	30	.18
Nov.	1.53	10	8	9	.56
Dec.	4.39	24	23	6	.62
Total	22.11	165	123		

RIVER HEIGHT RECORDS REGISTERED BY THE AUTOMATIC RECORDER
AT THE GUILDHALL, YORK, 1934.

Date.	JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.	
	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.
1	12 p.m.	above 0 6	noon	above 0 9	1 a.m.	above 0 6	5 p.m.	above 0 6	1 a.m.	above 2 2	noon	S.L.
2	"	0 6	1 a.m.	0 9	12 p.m.	0 9	noon	0 2	"	1 9	"	S.L.
3	9 p.m.	1 3	noon	0 5	noon	0 9	3 a.m.	0 5	"	1 3	"	below 0 4
4	12 p.m.	1 0	12 p.m.	0 6	1 a.m.	0 8	12 p.m.	0 4	"	0 11	12 p.m.	0 2
5	6 p.m.	2 6	"	0 6	12 p.m.	0 9	5 p.m.	0 4	noon	0 8	noon	0 2
6	1 a.m.	2 2	noon	0 5	"	1 1	4 p.m.	0 4	12 p.m.	0 8	"	0 2
7	11 p.m.	4 0	"	0 5	1 a.m.	1 1	2 p.m.	0 5	8 p.m.	3 10	"	0 2
8	2 p.m.	4 4	"	0 4	"	0 6	5 p.m.	0 6	1 a.m.	3 9	"	0 2
9	1 a.m.	3 3	12 p.m.	0 5	12 p.m.	0 5	6 a.m.	0 3	"	1 9	1 a.m.	0 3
10	12 p.m.	0 11	noon	0 3	"	0 6	1 p.m.	0 3	"	1 3	10 a.m.	0 1
11	"	1 0	6 p.m.	0 6	"	1 2	12 p.m.	0 6	"	1 0	noon	0 1
12	"	2 5	12 p.m.	0 3	"	4 0	"	5 5	"	0 8	"	0 3
13	6 a.m.	2 8	"	0 3	6 p.m.	4 1	10 a.m.	6 8	4 p.m.	0 6	"	0 3
14	12 p.m.	3 3	"	0 3	1 a.m.	3 11	1 a.m.	4 5	noon	0 3	"	0 6
15	noon	4 10	1 a.m.	0 3	9 p.m.	2 6	"	1 10	"	0 3	"	0 3
16	1 a.m.	2 11	noon	0 1	1 a.m.	2 5	"	1 7	12 p.m.	2 7	"	0 4
17	12 p.m.	4 7	"	0 1	12 p.m.	3 3	"	1 1	5 a.m.	2 8	12 p.m.	0 5
18	8 a.m.	6 6	5 p.m.	0 4	1 a.m.	3 3	"	0 8	1 a.m.	2 2	1 a.m.	0 5
19	3 p.m.	6 0	noon	S.L.	6 p.m.	2 6	2 p.m.	0 6	6 p.m.	3 9	9 a.m.	0 5
20	1 a.m.	4 11	"	S.L.	10 p.m.	2 4	noon	0 6	1 a.m.	3 3	11 a.m.	0 6
21	"	1 9	"	S.L.	3 p.m.	2 0	7 a.m.	0 7	12 p.m.	1 9	9 a.m.	0 6
22	"	1 3	noon	below 0 1	2 a.m.	2 2	6 p.m.	0 7	9 a.m.	2 3	noon	0 4
23	"	1 0	"	0 1	1 a.m.	1 7	1 a.m.	0 6	noon	1 4	9 a.m.	above 0 5
24	"	0 8	10 a.m.	0 2	12 p.m.	1 5	3 p.m.	0 3	1 a.m.	1 0	6 p.m.	0 2
25	"	0 6	12 p.m.	0 3	6 p.m.	2 6	12 p.m.	0 8	6 a.m.	0 6	12 p.m.	0 3
26	12 p.m.	0 9	noon	0 2	1 a.m.	2 5	"	1 5	12 p.m.	0 3	noon	0 3
27	"	1 9	12 p.m.	above 0 2	12 p.m.	1 6	"	3 10	5 p.m.	0 4	9 a.m.	0 5
28	6 a.m.	2 0	"	0 6	1 a.m.	1 6	8 a.m.	4 0	"	0 3	4 p.m.	above 0 9
29	1 a.m.	1 6	"	0 10	"	0 10	12 p.m.	3 5	noon	0 2	1 a.m.	0 5
30	"	0 10	"	0 9	6 p.m.	0 9	8 a.m.	3 7	"	0 1	noon	below 0 1
31	noon	0 8		0 6	"	0 6			"	S.L.		

RIVER HEIGHT RECORDS.—Continued.

Date.	JULY.		AUGUST.		SEPTEMBER.		OCTOBER.		NOVEMBER.		DECEMBER.	
	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.	Time.	Above or below S.L. ft. in.
1	5 p.m.	above 0 1	noon	below 0 7	10 p.m.	below 0 5	12 p.m.	above 2 11	4 a.m.	above 0 11	7 a.m.	below 0 5
2	noon	below 0 4	"	0 6	12 p.m.	0 8	2 a.m.	3 0	1 a.m.	0 8	5 p.m.	above 0 1
3	9 a.m.	0 5	"	0 6	1 a.m.	0 8	1 a.m.	0 11	"	0 4	12 p.m.	0 6
4	8 a.m.	0 6	"	0 2	11 a.m.	0 9	12 p.m.	0 6	12 p.m.	1 10	"	1 5
5	10 a.m.	0 6	12 p.m.	below 0 6	9 a.m.	0 6	9 p.m.	3 5	3 a.m.	1 11	"	4 11
6	9 a.m.	0 5	noon	0 6	noon	0 8	1 a.m.	3 0	3 p.m.	0 8	noon	6 11
7	noon	0 6	3 p.m.	0 7	10 a.m.	0 9	12 p.m.	1 3	6 a.m.	0 9	1 a.m.	5 1
8	12 p.m.	0 7	9 a.m.	0 6	noon	0 9	noon	3 4	1 a.m.	0 6	"	4 5
9	1 a.m.	0 7	11 a.m.	0 5	4 p.m.	0 10	1 a.m.	1 5	12 p.m.	0 3	7 a.m.	5 10
10	"	0 6	10 a.m.	0 7	12 p.m.	0 8	2 p.m.	0 11	"	5 1	1 a.m.	4 7
11	2 p.m.	0 7	12 p.m.	above 1 1	6 a.m.	0 9	1 a.m.	0 8	11 a.m.	7 0	"	2 2
12	6 a.m.	0 7	1 a.m.	1 2	11 a.m.	0 9	"	0 4	1 a.m.	4 5	12 p.m.	1 11
13	3 p.m.	0 7	2 p.m.	0 2	noon	0 9	"	0 2	"	1 10	5 p.m.	2 11
14	12 p.m.	above 0 5	7 a.m.	below 0 5	11 a.m.	0 9	5 p.m.	0 2	12 p.m.	0 9	1 a.m.	2 0
15	6 p.m.	0 6	12 p.m.	0 3	"	0 9	12 p.m.	0 7	10 a.m.	0 10	12 p.m.	1 10
16	8 a.m.	0 1	9 a.m.	0 6	noon	0 9	noon	0 7	noon	0 8	"	2 4
17	9 a.m.	below 0 4	"	0 7	"	0 10	"	0 4	12 p.m.	1 0	noon	2 8
18	6 a.m.	0 4	"	0 6	"	0 8	1 a.m.	0 3	noon	1 0	12 p.m.	3 3
19	4 p.m.	above 0 4	1 p.m.	0 8	11 a.m.	0 9	8 a.m.	below 0 4	1 a.m.	0 10	1 p.m.	4 7
20	9 a.m.	below 0 3	10 a.m.	0 9	noon	0 8	10 a.m.	0 5	"	0 5	1 a.m.	4 2
21	"	0 5	11 a.m.	0 8	4 a.m.	0 7	12 p.m.	above 0 8	12 p.m.	0 3	"	2 2
22	12 p.m.	0 6	12 p.m.	above 0 11	9 a.m.	0 7	"	1 1	"	0 2	12 p.m.	1 3
23	1 a.m.	0 6	4 p.m.	1 0	12 p.m.	1 2	3 a.m.	1 3	10 a.m.	0 2	6 p.m.	1 3
24	noon	0 7	10 a.m.	1 1	1 a.m.	1 2	12 p.m.	1 7	12 p.m.	0 2	"	1 3
25	"	0 7	1 a.m.	0 6	"	0 2	"	3 3	5 p.m.	0 3	12 p.m.	1 3
26	"	0 8	noon	below 0 4	3 p.m.	0 1	3 p.m.	4 11	9 p.m.	0 1	"	4 10
27	"	0 8	1 a.m.	0 5	4 p.m.	3 3	1 a.m.	3 9	10 p.m.	0 1	9 a.m.	5 5
28	"	0 8	11 a.m.	0 7	1 a.m.	2 5	8 a.m.	5 6	11 p.m.	0 1	12 p.m.	3 8
29	"	0 7	noon	0 7	"	0 6	1 a.m.	3 6	10 p.m.	0 1	"	4 1
30	"	0 8	"	0 8	12 p.m.	0 3	"	2 6	8 a.m.	below 0 4	6 a.m.	4 7
31	"	0 6	4 a.m.	0 7	"	0	"	1 3	"	"	4 a.m.	3 2

ADDITIONS TO THE MUSEUM
DURING 1934.

- ALLARD, S. H.—A specimen of *Diodon* sp. (The Porcupine Fish).
- ALLEN, C.—Skin of Sabine's Gull, shot at Bridlington, December 2nd, 1907, and two skins of *Jacana* sp.
- AUDEN, G. A., M.D.—Notebook kept from 1884-1899 by Mr. B. Cattley, 54 Bootham; Geological Map.
- BARKS, G.—Durham Penny, both sides reverses, found at Heworth.
- BROOK, W. HARVEY.—Central portion of the head of a standing Cross, Middle-Saxon period, found in the Mount district of York.
- CLAYTON, WM.—Reformation 1/-, 1654.
- COLLINS, MAJOR E. R.—90 Palaeolithic Implements from Upper Nidderdale.
- CORNER, MISS SYLVIA, O.B.E.—Madreporian Coral.
- DE YARBURGH-BATESON, MRS. M.—Old Watch, with rack escapement, 1791.
- ELMHIRST, CHAS E., J.P.—Two eggs of the Black Kite; Brown Trout, Gillaroo Trout, Green Woodpecker, Pair of Peregrine Falcons, all mounted in cases; Head of Red Deer, hind.
- ELMHIRST, THE REV. W. H.—Two Flying Squirrels.
- HAGYARD, ROBERT.—Case containing mounted Fox and cub and Squirrel.
- HALL, G. C.—Pocket Flint and Steel; series of round-headed Pins, c. 1850.
- HALL, COL. S. HOWARD.—A piece of Castleford Stone Pottery.
- HAMMOND, MISS.—Pair of old Scales.
- HARDACRE, J.—Early British Charm; Three Copper Tokens; Small Cameo set on Jet.
- HARTLEY, MISS EMILY.—Water colour sketch of the Minster.
- HEPPLE, MRS.—Mahogany Cradle.
- HORSLEY, J. D.—Macclesfield Token.
- HURST, ARTHUR, A.K.C.—Three Buttons of North Yorkshire Volunteers, c. 1780.

- JONES, FRANK.—Roman denarius.
- LAUGHTON, F. W.—Carved stone from one of the jambs of the Chapter House entrance, St. Mary's Abbey.
- LONG, H. W. FORTESCUE, B.Sc.—16 York Engravings.
- MOORE, MISS M. A.—Water colour sketch by Wm. Moore ; Water colour sketch by W. M. Junr., 1840 ; Coloured Lithograph by John Sampson ; Photograph of H. Cave's water colour sketch of the old Ouse Bridge.
- MORPHEW, Col. P.—Two small pot figures of the early 19th cent., possibly Yorkshire.
- MORRELL, CUTHBERT.—Horn Drinking Cup, found during excavations at 118, Walmgate ; Oak Bracket, from 118, Walmgate, York.
- MORRELL, ALD. J. B.—Piece of carved oak.
- MORTON, J. H.—A Secular Diary, 1836.
- PHILLIPS, DR. H. A.—Bone needle, found during excavations in High Ousegate.
- POUNDER, A.—Coin—Antoninianus of Victorinus, found at New Earswick.
- POWELL, MRS.—Model of Old Yorkshire Wagon, made in 1800.
- POWER, GEOFFREY C.—Bone Apple Scoop.
- RAFTON, W.—Watchmaker's Vice.
- ROBERTS, W. H.—Five full plate Photographs of the new Mersey Tunnel.
- SMITH, H. D.—Eggs of Nightjar ; Clutch of Blackbirds' Eggs with Cuckoo's Egg.
- SMITH, SYDNEY H.—Official Programme and Souvenir of the Coronation Festivities, York, 1902 ; Fragment of a sword, found beneath a tombstone in the cellar of No. 10, Parliament St. (This is the site of the churchyard of St. Peter the Little) ; Group of document seals of Old Friendly Societies ; Carved wood watch case ; Bolt and nut from Clifford's Tower ; Victorian lacquer trinket case ; Horn knife handle ; Irish smoking pipe ; 3 brooches ; 2 pewter spoons ; Pair of pearl ear-rings ; Bronze whistle ; 3 of Snowden Slight's account books ; Old Tea Caddy ; Series of medals ; Mediaeval Water Pipe.
- SOWDEN, H.—Specimen of the Snake Pipefish and Sea Horse.
- THOMPSON, GEOFFREY.—George III Shilling, 1787, rare variety.

THOMSON, LADY.—Oyster shells and fragments of Roman pottery from excavations at Old Nunthorpe.

WALLEY, MISS L. M.—Old Pincushion, dated 1832; Pair of child's slippers and wooden last, c. 1800.

WALTON, MRS.—Snuff Grater.

WARE, LIEUT.-COL. INNES.—Ancient British Skull, found in Swinegate, York.

YORKSHIRE HERALD, Directors of the.—Boot Scraper and Knocker from the George Inn, Coney Street.

ON LOAN.

LOCKWOOD, MRS.—Mounted head of "Pat the Giant," 1915.

TRIFFITT, J.—Roman Bronze Statuette of Bellona.

ADDITIONS TO THE LIBRARY
DURING 1934.

- ABERYSTWYTH, National Library of Wales.—Annual Report, 1933-34.
- ARKELL, W. J., M.A., B.Sc., D.PHIL.—(author).—A Monograph of British Corallian Lamellibranchia, part vi.
- ASHMOLEAN NATURAL HISTORY SOCIETY OF OXFORDSHIRE.—Proceedings and Report for 1933.
- AUCKLAND INSTITUTE AND MUSEUM, N.Z.—Annual Report, 1933-34; Records, vol. i, no. 5.
- AUSTRALIAN MUSEUM.—Annual Report for year ended 30th June, 1933.
- BIRMINGHAM & MIDLAND INSTITUTE SCIENTIFIC SOCIETY.—vol. v (Record, 1872-1933 and Abstracts, 1931-33).
- BOSTON, MASS., U.S.A.—Bulletin of the Society for the Preservation of New England Antiquities ("Old-time New England"), vol. xxiv, nos. 3, 4; xxv, nos. 1, 2.
- BRIGHTON & HOVE NATURAL HISTORY & PHILOSOPHICAL SOCIETY.—Annual Report for year ending 30th June, 1934.
- BRISTOL NATURALISTS' SOCIETY.—Annual Report and Proceedings, 4th Series, vol. vii, part vi. (1933).
- CAHILL, R. S.—Journal of the Chemical Society, January-December, 1934; British Chemical Abstracts, January-December, 1934.
- CALIFORNIA, STATE OF.—Monthly Bulletin of the Department of Agriculture, vol. xxii, nos. 7-12; xxiii, nos. 1-11.
— UNIVERSITY OF CALIFORNIA PUBLICATIONS.—Bulletin of the Department of Geological Sciences, vol. xxii 1932; xxiii, no. 7 (pp. 215-276).
- CARDIFF, NATIONAL MUSEUM OF WALES.—27th Annual Report (1933-34).
- COLCHESTER AND ESSEX MUSEUM.—Annual Report, 1933.
- EDINBURGH, ROYAL SOCIETY OF.—Proceedings, vol. liii, part 4; liv, parts 1 and 2; Transactions, vol. lvii, part 3; lviii, part 1.
- ELMHIRST, CHAS. E., J.P.—"Romantic Richmondshire" (H. Speight) (1897).
- FREMERSDORF, DR. FRITZ (author).—Museum und Öffentlichkeit—Studien aus den Kölner Kunstsammlungen.—vii—Römische Gläser aus Köln.

HALIFAX, COUNTY BOROUGH OF.—Bankfield Museum Notes, Third Series, no. 3.—A Short History of Shibden Hall. (By T. W. Hanson).

HAWAIIAN VOLCANO OBSERVATORY.—The Volcano Letter, nos. 403-415.

ILLINOIS STATE GEOLOGICAL SURVEY.—Report of Investigations, nos. 29, 34, 36; Bulletin 61.

INDIA (CALCUTTA), GEOLOGICAL SURVEY OF INDIA.—Records, vol. lxxvii, parts 2, 4; lxxviii, parts 1, 3; Memoirs, vol. lix; lxii, part 1; lxiii, part 2; lxiv, part 2; lxv, part 1; Memoirs (Palaeontologia Indica), New Series, vol. ix, mem. no. 2; xx, mem. no. 4; xxi, mem. no. 2; xxii, mem. no. 1.

JAPAN, NATIONAL RESEARCH COUNCIL OF.—Japanese Journal of Zoology, vol. v, nos. 3, 4; vi, no. 1.

LEEDS PHILOSOPHICAL AND LITERARY SOCIETY.—Proceedings, Literary and Historical Section, vol. iii, parts 3-5; Scientific Section, vol. ii, parts 11-12.

LEEDS, UNIVERSITY OF.—29th Report (1932-33); Publications and Abstracts of Theses during Session 1932-33.

LEICESTER LITERARY AND PHILOSOPHICAL SOCIETY.—Transactions, vol. xxxv (1933-34).

LEICESTER MUSEUM, ART GALLERY AND LIBRARY.—Bulletin (Quarterly), nos. 39-42; 30th Report (1933-34); "Leicester Museum and the Schools."

LONDON, BRITISH MUSEUM (Natural History).—Guide to the Collection of Rocks (1933).

LONDON, GEOLOGICAL SOCIETY OF.—Quarterly Journal, vol. xc, parts 1-3; Geological Literature added to the Geological Society's Library during 1933; Subject Index to the Geological Literature added during 1923 and 1924.

— H.M. STATIONERY OFFICE.—Quarterly Return of Marriages, Births and Deaths, nos. 340, 341.

— METEOROLOGICAL OFFICE.—Monthly Weather Reports, Supplements, etc.

— THE NATIONAL CENTRAL LIBRARY.—18th Annual Report (1933-34).

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PROCEEDINGS
OF THE
YORKSHIRE
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PAPERS

RELATING TO THE

Antiquities and Natural History of Yorkshire, etc.

PRINTED BY ORDER OF THE COUNCIL.

1935.

PROCEEDINGS
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY,
1934.

NOTE ON STOMATOPORA SMITHI (PHILLIPS),

BY SIDNEY MELMORE, B.Sc., F.G.S.

Cellaria smithii J. Phillips, Illus. Geol. Yorks., pt. I, (1829), p. 143, pl. vii, fig. 8.

„ „ Ibid., ed. 2, (1835), p. 115, pl. vii, fig. 8.

Hippothoa smithii Ibid., ed. 3, (1875), p. 242, pl. vii, fig. 8.

Stomatopora smithi J. W. Gregory, Ann. Rept. Yorks. Phil. Soc., for 1893, (1894), p. 58, text-fig. 1.

Stomatopora smithi J. W. Gregory, Ann. Mag. Nat. Hist., ser. 6, vol. xv, (1895), p. 226.

Stomatopora smithi J. W. Gregory, Cat. Foss Bryozoa in B.M., Jurass. Bryozoa, (1896), p. 56, text-fig. 8.

This unique specimen, in the Yorkshire Museum, was inadequately figured by Phillips in 1829; and remained undescribed until 1894, when J. W. Gregory published an account of it, which he reproduced in substantially the same form in the two following years. His description is as follows:—

Zoarium hippothoiform, uniserial; branches crowded and irregular; entirely adherent.

Zooecia pyriform; long slender proximal ends; front wall well raised, rounded and punctate; orifice small, circular, surrounded by a low rim.

Peristomes slightly raised. Flat regular rims surround each of the zooecia.

Distribution.—Adherent to *Cardium citrinoidum*. Cornbrash, near Scarborough. Only the type specimen known.

More recent work* on the Bryozoa makes it necessary to supplement this description; particularly as regards the dichotomy.

At first glance, the branches of the zoarium appear to be “crowded and irregular”; but on careful examination this is found to be due to interlacing. By focussing one’s attention on a series (of which two or three will be recognised in fig. 1), the mode of growth is seen to be as follows: A zooecium gives rise to two individuals, of which the axis of one is a

*W. D. Lang, *Geol. Mag.*, 1904, p. 315.

prolongation of that of the parent; while the axis of the other lies at about 120° thereto. The new zooecium in the parental line behaves similarly; and so throughout the series. But the lateral zooecium gives rise to only one individual. This process results in the formation of a main stem with unilateral branches (fig. 2).



Fig. 1—Holotype of *Stomatopora smithi*, x6.

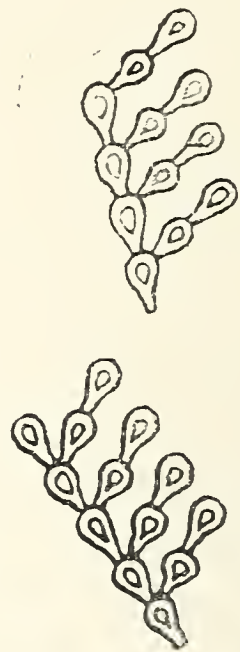
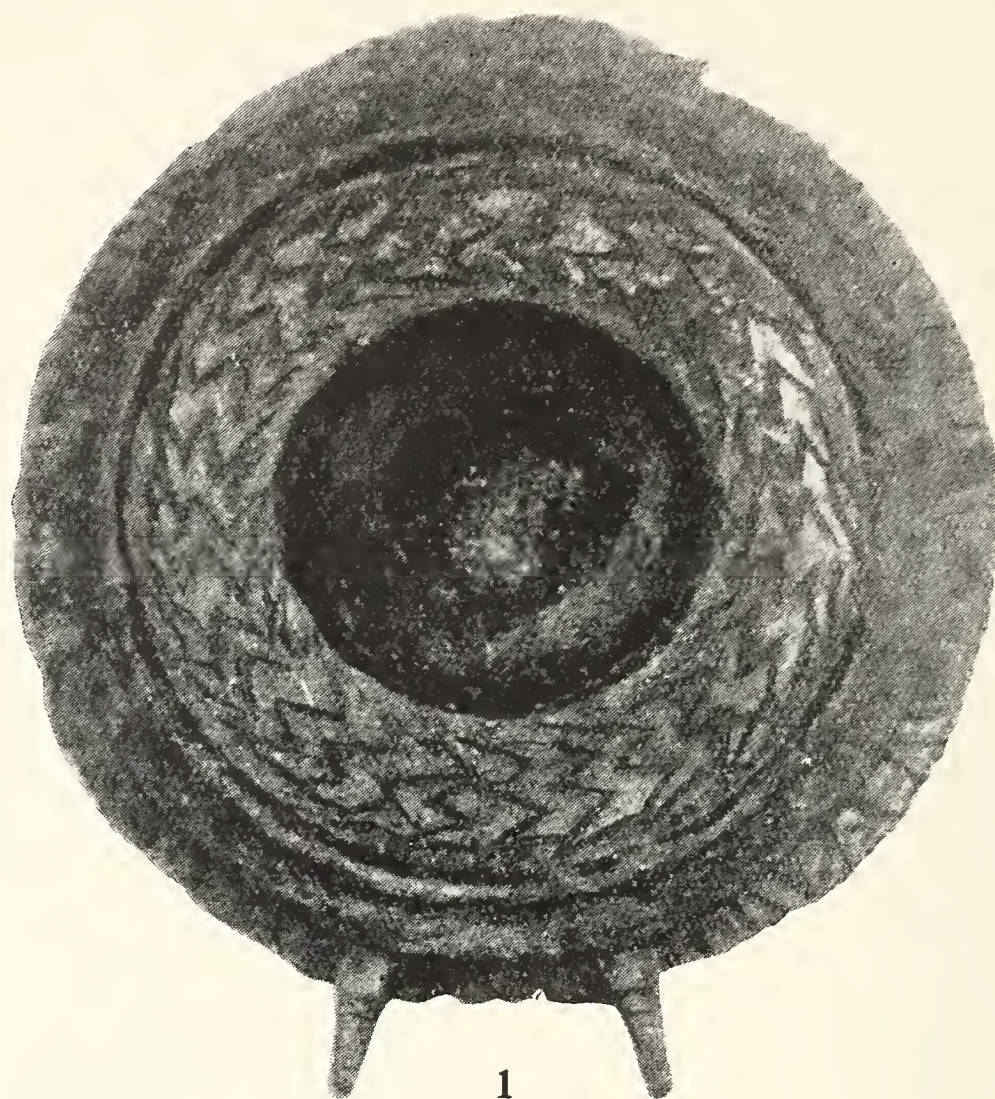


Fig. 2—Diagram showing mode of growth.

In passing along a series, there is no well-marked progressive change in the size of the zooecia. On the whole, the length is 0.66 mm., and the breadth 0.34 mm.; giving a ratio of length to breadth of 1.94. The width of the rim round the zooecium is 0.06 mm.; and of the proximal end 0.10 mm.

I have been unable to find an individual showing the orifice and punctate character indicated in Gregory's figure.

The shell to which this bryozoon is attached has recently been examined by Dr. W. J. Arkell, who is inclined to refer it to the genus *Proocardia*.



1



2

Fig. 1—Upper side of bronze phalera.
Fig. 2—Under side of bronze phalera.

ON A ROMAN PHALERA FOUND NEAR MALTON.

BY DR. WALTER E. COLLINGE, F.S.A.

In the latter part of 1928 there was ploughed up in a field near Malton a bronze Roman phalera, quite an unusual find for Great Britain. This was acquired by the Yorkshire Museum early in 1929, and has since been on exhibition in our collection of Roman Antiquities.

Owing to its rarity and its unusually heavy nature, it weighs $10\frac{1}{4}$ ozs., I have been asked to figure and describe the specimen.

The Malton specimen is a bronze boss with a decorative border and a central pit or well surrounded by what are probably intended to be bay leaves. Possibly the well was filled with a coloured stone. Below it has two eyelets to which in all probability there was attached a pendant. The specimen measures $4\frac{1}{8}$ in. in diameter and $\frac{1\frac{5}{8}}{16}$ of an inch from the upper to the underside. On the underside, at the back of the well is a circular rim by which the ornament was no doubt attached to a leather strap.

Mr. Reginald A. Smith of the British Museum, has kindly examined the specimen and dates it, in all probability, as being 1st century.

Phalerae were discs or bosses of gold, silver, bronze and brass, sometimes adorned with jewels, cast or chased with various devices in relief, such for instance as the head or bust of an emperor, and often had pendants attached to them. They were worn as ornaments or military decorations on the breast on a light framework of leather, or as ornamental trappings on horses, where they were fixed to the headstall or to a throat collar, or to a martingale across the chest.

“Phalerae are of great antiquity, and we find them named by Herodotus among other golden horse-gear of the Massagetae. Among the Etruscans they were certainly in use, and probably both as personal and as horse ornaments. We learn indeed from Florus that the Romans borrowed the use of phalerae from the Etruscans.”*

Curle† has described a number of round metal plates worn on the breast on a light framework of leather, and instances a number of monuments illustrating the wearing of such military decorations, chief amongst which is that of the centurion Marcus Caelius, found at Xanten on the Rhine.

* *Archaeologia*, 1873, xliv, pp. 100—112, 1 fig.

† *A Roman Frontier Post*, 1911, pp. 174, 176, 298.

In addition to these disc-like bodies Curle figures and describes other much more elaborate ones employed in the decoration of harness. From a circular brass phalera, number 9, plate lxxii, and others (Figs. 43 and 44) it would appear that the Malton specimen belongs to this class.

Pollexfen* described a rare example of phalera from Colchester in 1863. It consisted of a "Glass medallion of an intense transparent blue, with a thin film of opaque white glass at the back, added probably to throw up the colour, which, from the thickness of the material, would otherwise appear black. The design is in relief, of the same colour as the ground, and represents the bust of an imperial personage, full faced, with the head of a child over each shoulder, and a third in front of the breast. The portrait is not unlike that of Germanicus, and the smaller heads would be those of three of his children, of which several died young.

The example from Colchester had been mounted on a thin plate of bronze, coated with white metal, to which it had been attached with cement; it was found in a black urn, which was brought to light in excavating the foundation of a house in Beverley Terrace, Colchester."

* *Archaeologia*, 1863, xxxix, p. 508, pl. xxiv.

ON A FURTHER ROMAN CAMP-KETTLE FOUND IN YORK.

BY DR. WALTER E. COLLINGE, F.S.A.

In a recent article¹ on a Roman Camp-Kettle dredged from the River Ouse in December last, I stated that it was "the first of its kind to be found in York." This is not quite correct. It is the first one bearing an inscription or marks of possession, but in the Yorkshire Museum there is a specimen without any inscription which was found about twenty-four years ago during excavations in Piccadilly, York, and presented to the Museum by Mr. Christopher Martin.



This earlier specimen is smaller than the one dredged from the River Ouse and by no means so well preserved. It has been patched on one side, and has part of an iron collar, $1\frac{3}{8}$ of an inch in depth, which at one time evidently had a handle. Eighteen rivets attached the collar to the kettle.

The measurements are as follows:—height $8\frac{1}{2}$ inches, greatest diameter $14\frac{1}{2}$ inches, diameter at mouth $13\frac{1}{4}$ inches. The rim is $\frac{5}{8}$ of an inch in height, but is not convex. The base of this specimen is convex.

The specimen approaches in shape that figured by Curle² and labelled number 8.

¹—*Antiquaries Journ.*, 1935.

²—*A Roman Frontier Post and its People*, Pl. liii.

NOTE ON SOME SPECIMENS IN THE MUSEUM OF MEDIAEVAL ARCHITECTURE.

By W. HARVEY BROOK.

A noteworthy improvement has been effected during the past year to which I desire to call attention. The two wall-cases in the Scriptorium passage containing fragments of sculpture and carving have been cleaned and re-arranged. This exacting work has been admirably and entirely carried out by my friend, whose unselfish help is alluded to in the Annual Report for 1934.

Several interesting casts of carved 16th century door-panels, formerly in a house within the precincts of the Bedern College, are now exhibited; two being achievements of the arms of George Gale, goldsmith, Sheriff of York in 1530 A.D., and Lord Mayor in 1549; a head of a mitred bishop which very probably is intended for Robert Holgate, the contemporary Archbishop, who was formerly the head of the Gilbertine Order; another bishop, who may be the Patron Saint of the Goldsmiths' Company, St. Dunstan, or else St. Nicholas, represented carrying over his left shoulder "bougets" of leather. The boldest head, evidently of an important personage, may well represent the chief magistrate himself; another panel depicts St. George of Cappadocia in combat with the Dragon—St. George being George Gale's Patron Saint.

Only two examples of the fine old Tudor traceried ceilings from the house of the Methams (an ancient Howden-shire family) which stood at the corner of St. Martin's Lane, in Micklegate, pulled down in 1868-9, can be found. One is an original piece cut out, showing the lath marks, the other, a rose centre, being a cast; another, which has disappeared, bore the arms of Metham "Quarterly, az and ar, in chief dexter quarter, a fleur de lis, or." I have drawn and coloured a "*trick*" of these arms and placed them in the case.

All the small fragments of the Nave-Tomb Shrine of St. William of York, circa 1320 A.D., and those belonging to the glorious 15th century Tees Valley marble "New Shrine of the Translation of the Relics" of that saint, sometimes referred to as "The Reredos of the High Altar," made between the years 1418-1426 A.D., are at last arranged and placed together. For these, and most of the various details, descriptive and elaborate labels have been prepared and placed in the two cases by me.



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5 APR 1935

The Yorkshire Museum, York.

MUSEUM PUBLICATIONS.

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						1 0
2.	BELL, ALFRED.—Notes on the Later Tertiary Invertebrata, pp. 21 & 2 plates			1 0
3.	BELL, ALFRED.—On the Pleistocene and Later Tertiary British Insects, pp. 11			0 6
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25.	—— Selby Abbey and its Builders, pp. 13 & 6 plates	2	0
26.	WAKEFIELD, C.—Description of the Coins of Edward the Confessor, pp. 12 & 1 plate ...	0	6
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28.	St. Mary's Abbey.—Copies of the Ground Plan, 13 × 11 inches	1	0
ROMAN YORK.—By Major Gordon Home with the co-operation of Dr. Walter E. Collinge, F.S.A., in cloth, 12s. 6d.			

An Illustrated Booklet containing "A Description of the Ancient, Mediaeval, and Modern Buildings preserved in the Society's Grounds," price 1d.

Picture Post Cards of the Ruins of St. Mary's Abbey, the Roman Multangular Tower and Wall, and various objects in the Museums, are on sale price 1d. and 2d. each. Enlargements, price 3/6 and 1/- each.

Lantern Slides of many of the objects in the Museums and Gardens are on sale. It must, however, be distinctly understood that the slides are supplied for the applicant's own use and are not for the purposes of reproduction or publication.

Note Books and Pencils can be obtained, price 1d. each.

WALTER E. COLLINGE,
Keeper of the Museum.

APRIL 3rd, 1935.

Herald Printing Works, York.

